

SEQUENCE LISTING

<110> Larsen, Bjarne Due

<120> PHARMACOLOGICALLY ACTIVE PEPTIDE CONJUGATES HAVING A
REDUCED TENDENCY TOWARDS ENZYMATIC HYDROLYSIS

<130> PPT-20479-US

<140>

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<150> DK 0317/98

<151> 1998-03-09

<160> 121

<170> PatentIn Ver. 2.0

<210> 1

<211> 5

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: DPLCE

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<221> MOD RES

<222> (2)

<223> D-Pen

<400> 1

Tyr Xaa Gly Phe Cys

1

5

<210> 2

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: DPLCE-Arg-Pro-Ala

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<221> MOD RES

<222> (2)

<223> D-Pen

<400> 2

Tyr Xaa Gly Phe Cys Arg Pro Ala

1

5

<210> 3

<211> 6

<212> PRT

[illegible]

<223> D-Pen

<400> 5
Tyr Xaa Gly Phe Xaa Arg Gly
1 5

<210> 6
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<220>
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<222> (2)
<223> D-Pen

<400> 6
Tyr Xaa Gly Phe Cys Arg Gly
1 5

<210> 7
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<220>
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<220>
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<222> (2)
<223> D-Pen

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<222> (5)
<223> D-Pen

<400> 7
Tyr Xaa Gly Phe Xaa Phe Ala
1 5

<210> 8
<211> 15
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: DSIP-(Lys-Glu)3

<400> 8
Trp Ala Gly Gly Asp Ala Ser Gly Glu Lys Glu Lys Glu Lys Glu
1 5 10 15

00341590.01399

<210> 9
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: DSIP-(Glu)6

<400> 9
 Trp Ala Gly Gly Asp Ala Ser Gly Glu Glu Glu Glu Glu Glu
 1 5 10 15

<210> 10
 <211> 11
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Leu-enkephalin-(Glu)6

<400> 10
 Tyr Gly Gly Phe Leu Glu Glu Glu Glu Glu Glu
 1 5 10

<210> 11
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<220>
 <223> Description of Artificial Sequence: Leu-enkephalin-(Lys)6

<400> 11
 Tyr Gly Gly Phe Leu Lys Lys Lys Lys Lys Lys
 1 5 10

<210> 12
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 <212> PRT
 <213> Homo sapiens

<400> 12
 Tyr Gly Gly Phe Leu
 1 5

<210> 13
 <211> 9
 <212> PRT
 <213> Homo sapiens

<400> 13
 Cys Tyr Ile Gln Asn Cys Pro Leu Gly
 1 5

0944590.074399

<210> 14
 <211> 14
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: AF 12505

<400> 14
 Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala
 1 5 10

<210> 15
 <211> 14
 <212> PRT
 <213> Homo sapiens

<220>
 <223> insulin-like growth factor I (57-70)

<400> 15
 Ala Leu Leu Glu Thr Tyr Cys Ala Thr Pro Ala Lys Ser Glu
 1 5 10

<210> 16
 <211> 12
 <212> PRT
 <213> Homo sapiens

<220>
 <223> insulin-like growth factor I (30-41)

<400> 16
 Gly Tyr Gly Ser Ser Ser Arg Arg Ala Pro Gln Thr
 1 5 10

<210> 17
 <211> 18
 <212> PRT
 <213> Homo sapiens

<220>
 <223> insulin-like growth factor I (24-41)

<400> 17
 Tyr Phe Asn Lys Pro Thr Gly Tyr Gly Ser Ser Ser Arg Arg Ala Pro
 1 5 10 15

Gln Thr

<210> 18

0634560 04390 0634560

<211> 8
 <212> PRT
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<220>
 <223> insulin-like growth factor II (33-40)

<400> 18
 Ser Arg Val Ser Arg Arg Ser Arg
 1 5

<210> 19
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: insulin-like
 growth [tyro] factor II (33-40)

<400> 19
 Tyr Ser Arg Val Ser Arg Arg Ser Arg
 1 5

<210> 20
 <211> 16
 <212> PRT
 <213> Homo sapiens

<220>
 <223> insulin-like growth factor II (69-84)

<400> 20
 Asp Val Ser Thr Pro Pro Thr Val Leu Pro Asp Asn Phe Pro Arg Tyr
 1 5 10 15

<210> 21
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<220>
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 <222> (2)
 <223> D-Trp

<220>
 <221> MOD_RES
 <222> (5)
 <223> D-Phe

<400> 21

666720"06974E60

His Xaa Ala Trp Xaa Lys
1 5

<210> 22
<211> 9
<212> PRT
<213> Homo sapiens

<220>
<223> beta-Interleukin I (163-171)

<400> 22
Val Gln Gly Glu Glu Ser Asn Asp Lys
1 5

<210> 23
<211> 13
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<213> Homo sapiens

<220>
<223> beta-Interleukin II (44-56)

<400> 23
Ile Leu Asn Gly Ile Asn Asn Tyr Lys Asn Pro Lys Leu
1 5 10

<210> 24
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<212> PRT
<213> Homo sapiens

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<223> Interleukin II (60-70)

<400> 24
Leu Thr Phe Lys Phe Tyr Met Pro Lys Lys Ala
1 5 10

<210> 25
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<213> Heloderma suspectum

<220>
<223> exendin-4

<400> 25
His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

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Ser Gly Ala Pro Pro Pro Ser
35

<210> 26
<211> 39
<212> PRT
<213> Heloderma horridum

<220>
<223> exendin-3

<400> 26
His Ser Asp Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln Met Glu Glu
1 5 10 15
Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly Gly Pro Ser
20 25 30

Ser Gly Ala Pro Pro Pro Ser
35

<210> 27
<211> 12
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: modified epidermal
growth factor

<220>
<221> MOD_RES
<222> (1)
<223> Cys(Acm)

<220>
<221> MOD_RES
<222> (12)
<223> Cys(Acm)

<400> 27
Xaa Met His Ile Glu Ser Leu Asp Ser Tyr Thr Xaa
1 5 10

<210> 28
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: bivalirudin

<220>
<221> MOD_RES
<222> (1)

004450"05574E60

<223> D-Phe

<400> 28

Xaa Pro Arg Pro Gly Gly Gly Gly Asn Gly Asp Phe Glu Glu Ile Pro
1 5 10 15

Glu Glu Tyr Leu
20

<210> 29

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: hirulog-1

<220>

<221> MOD_RES

<222> (1)

<223> D-Phe

<400> 29

Xaa Pro Arg Pro Gly Gly Gly Gly Asn Gly Asp Phe Glu Glu Ile Pro
1 5 10 15

Glu Tyr Leu

<210> 30

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<223> C-type natriuretic peptide (1-53)

<400> 30

Asp Leu Arg Val Asp Thr Lys Ser Arg Ala Ala Trp Ala Arg Leu Leu
1 5 10 15

Gln Glu His Pro Asn Ala Arg Lys Tyr Lys Gly Ala Asn Lys Lys Gly
20 25 30

Leu Ser Lys Gly Cys Phe Gly Leu Lys Leu Asp Arg Ile Gly Ser Met
35 40 45

Ser Gly Leu Gly Cys
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<210> 31

<211> 15

<212> PRT

<213> Artificial Sequence

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<220>

<223> Description of Artificial Sequence: Mini ANP

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<221> MOD_RES

<222> (4)

<223> cyclohexyl-Ala

<400> 31

Met	Cys	His	Xaa	Gly	Gly	Arg	Met	Asp	Arg	Ile	Ser	Cys	Tyr	Arg
1				5				10					15	

<210> 32

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Melanotan II

<220>

<221> MOD_RES

<222> (1)

<223> Nle

<220>

<221> MOD_RES

<222> (4)

<223> D-Phe

<400> 32

Xaa	Asp	His	Xaa	Arg	Trp	Lys
1			5			

<210> 33

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: thymosin alpha 1

<400> 33

Ser	Asp	Ala	Ala	Val	Asp	Thr	Ser	Ser	Glu	Ile	Thr	Thr	Lys	Asp	Leu
1				5					10					15	

Lys	Glu	Lys	Lys	Glu	Val	Val	Glu	Glu	Ala	Glu	Asn
			20				25				

<210> 34

<211> 9

<212> PRT

<213> Artificial Sequence

<220>

66E740 065THESD

<223> Description of Artificial Sequence: ornipressin

<220>

<221> MOD_RES

<222> (8)

<223> Orn

<400> 34

Cys Phe Ile Gln Asn Cys Pro Xaa Gly
1 5

<210> 35

<211> 8

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: octreotide

<220>

<221> MOD_RES

<222> (1)

<223> D-Phe

<220>

<221> MOD_RES

<222> (4)

<223> D-Trp

<220>

<221> MOD_RES

<222> (8)

<223> Thr-ol

<400> 35

Xaa Cys Phe Xaa Lys Thr Cys Xaa
1 5

<210> 36

<211> 37

<212> PRT

<213> Homo sapiens

<220>

<223> CGRP

<400> 36

Ala Cys Asp Thr Ala Thr Cys Val Thr His Arg Leu Ala Gly Leu Leu
1 5 10 15

Ser Arg Ser Gly Gly Val Val Lys Asn Asn Phe Val Pro Thr Asn Val
20 25 30

Gly Ser Lys Ala Phe
35

05514660

<210> 37
 <211> 4
 <212> PRT
 <213> Homo sapiens

<220>
 <223> endomorphin-1

<400> 37
 Tyr Pro Trp Phe
 1

<210> 38
 <211> 4
 <212> PRT
 <213> Homo sapiens

<220>
 <223> endomorphin-2

<400> 38
 Tyr Pro Phe Phe
 1

<210> 39
 <211> 17
 <212> PRT
 <213> Homo sapiens

<220>
 <223> nociceptin

<400> 39
 Phe Gly Gly Phe Thr Gly Ala Arg Lys Ser Ala Arg Lys Leu Ala Asn
 1 5 10 15

Gln

<210> 40
 <211> 13
 <212> PRT
 <213> Homo sapiens

<220>
 <223> angiotensinogen (1-13)

<400> 40
 Asp Arg Val Tyr Ile His Pro Phe His Leu Val Ile His
 1 5 10

<210> 41
 <211> 12

004450-239
 004450-239

<210>	45
<211>	13
<212>	PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: cortistatin 29 (1-13)

<220>

<221> MOD_RES

<222> (1)

<223> Glp

<400> 45

Xaa Glu Arg Pro Pro Leu Gln Gln Pro Pro His Arg Asp
1 5 10

<210> 46

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<223> cortistatin 14

<400> 46

Pro Cys Lys Asn Phe Phe Trp Lys Thr Phe Ser Ser Cys Lys
1 5 10

<210> 47

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PD-145065

<220>

<221> MOD_RES

<222> (1)

<223> D-Bhg

<400> 47

Xaa Leu Asp Ile Ile Trp
1 5

<210> 48

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PD-142893

<220>

<221> MOD_RES

<222> (1)

<223> D-Dip

004500 005450

Xaa Leu Asp Ile Ile Trp
1 5

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<223> Description of Artificial Sequence: fibrinogen binding inhibitor peptide

<220>
<223> leptin (93-105)

<220>
<223> Description of Artificial Sequence: GR 83074

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<221> MOD RES
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<222> (7)

<223> Nle

<400> 51

Xaa Ala Xaa Phe Xaa Pro Xaa
1 5

<210> 52

<211> 4

<212> PRT

<213> Homo sapiens

<220>

<223> Tyr-W-MIF-1

<400> 52

Tyr Pro Trp Gly
1

<210> 53

<211> 5

<212> PRT

<213> Homo sapiens

<220>

<223> parathyroid hormone related peptide (107-111)

<400> 53

Thr Arg Ser Ala Trp
1 5

<210> 54

<211> 14

<212> PRT

<213> Homo sapiens

<220>

<223> angiotensinogen (1-14)

<400> 54

Asp Arg Val Tyr Ile His Pro Phe His Leu Val Ile His Asn
1 5 10

<210> 55

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Stabilising peptide

<400> 55

Lys Lys Lys Lys
1

56E1/0" 06374650

<220>
<223> Description of Artificial Sequence: Stabilising peptide

<220>

<223> Xaa at various positions throughout the sequence
may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 59

Lys Lys Xaa Lys Lys
1 5

<210> 60

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Stabilising peptide

<220>

<223> Xaa at various positions throughout the sequence
may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 60

Lys Lys Lys Xaa Lys
1 5

<210> 61

<211> 5

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Stabilising peptide

<220>

<223> Xaa at various positions throughout the sequence
may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 61

Lys Lys Lys Lys Xaa
1 5

<210> 62

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Stabilising peptide

<400> 62

Lys Lys Lys Lys Lys Lys
1 5

663120-0551450

<210> 63
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Stabilising peptide

<220>
 <223> Xaa at various positions throughout the sequence
 may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
 Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 63
 Xaa Lys Lys Lys Lys Lys
 1 5

<210> 64
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
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<220>
 <223> Xaa at various positions throughout the sequence
 may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
 Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 64
 Lys Xaa Lys Lys Lys Lys
 1 5

<210> 65
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Stabilising peptide

<220>
 <223> Xaa at various positions throughout the sequence
 may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
 Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 65
 Lys Lys Xaa Lys Lys Lys
 1 5

<210> 66
 <211> 6

0654590.039

<212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Stabilising peptide

<220>
 <223> Xaa at various positions throughout the sequence
 may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
 Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 66
 Lys Lys Lys Xaa Lys Lys
 1 5

<210> 67
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Stabilising peptide

<220>
 <223> Xaa at various positions throughout the sequence
 may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
 Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 67
 Lys Lys Lys Lys Xaa Lys
 1 5

<210> 68
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Stabilising peptide

<220>
 <223> Xaa at various positions throughout the sequence
 may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
 Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 68
 Lys Lys Lys Lys Lys Xaa
 1 5

<210> 69
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>

652720-05374260

<223> Description of Artificial Sequence: Stabilising peptide

<220>

<223> Xaa at various positions throughout the sequence
may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 69

Xaa Xaa Lys Lys Lys Lys
1 5

<210> 70

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Stabilising peptide

<220>

<223> Xaa at various positions throughout the sequence
may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 70

Xaa Lys Xaa Lys Lys Lys
1 5

<210> 71

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Stabilising peptide

<220>

<223> Xaa at various positions throughout the sequence
may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 71

Xaa Lys Lys Xaa Lys Lys
1 5

<210> 72

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Stabilising peptide

<220>

<223> Xaa at various positions throughout the sequence

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<400> 72

<210> 73

<212> PRT

<220>

<220>

<400> 73

<210> 74

<211> 6

<212> PRT

<220>

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<400> 74

<210> 75

<211> 6

<212> PRT

<220>

<220>

<400> 75

<210> 79
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Stabilising peptide

<220>
 <223> Xaa at various positions throughout the sequence
 may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
 Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 79
 Lys Lys Xaa Lys Xaa Lys
 1 5

<210> 80
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Stabilising peptide

<220>
 <223> Xaa at various positions throughout the sequence
 may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
 Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 80
 Lys Lys Xaa Lys Lys Xaa
 1 5

<210> 81
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Stabilising peptide

<220>
 <223> Xaa at various positions throughout the sequence
 may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
 Glu, Arg, His, Met, Orn, Dbu or Dpr

<400> 81
 Lys Lys Lys Xaa Xaa Lys
 1 5

<210> 82
 <211> 6
 <212> PRT
 <213> Artificial Sequence

65E129-063460

<223> Description of Artificial Sequence: Stabilising peptide

<223> Xaa at various positions throughout the sequence
may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
Glu, Arg, His, Met, Orn, Dbu or Dpr

Lys Lys Lys Xaa Lys Xaa
1 5

<213> Artificial Sequence

<223> Description of Artificial Sequence: Stabilising peptide

<223> Xaa at various positions throughout the sequence
may be Ala, Leu, Ser, Thr, Tyr, Asn, Gln, Asp,
Glu, Arg, His, Met, Orn, Dbu or Dpr

Lys Lys Lys Lys Xaa Xaa
1 5

<213> Artificial Sequence

<223> Description of Artificial Sequence: Stabilising peptide

Lys Glu Lys Glu Lys Glu
1 5

<213> Artificial Sequence

<223> Description of Artificial Sequence: Stabilising peptide

Glu Lys Glu Lys Glu Lys
1 5

<210> 86
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Stabilising peptide

<400> 86
 Lys Lys Lys Glu Glu Glu
 1 5

<210> 87
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Stabilising peptide

<400> 87
 Glu Glu Glu Lys Lys Lys
 1 5

<210> 88
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: GHRH (1-44)-Lys6

<400> 88
 Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln
 1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg Gln Gln Gly
 20 25 30

Glu Ser Asn Gln Glu Arg Gly Ala Arg Ala Arg Leu Lys Lys Lys Lys
 35 40 45

Lys Lys
 50

<210> 89
 <211> 50
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: GHRH (1-44)-Glu6

09344590.04399

<400> 89

Tyr Ala Asp Ala Ile Phe Thr Asn Ser Tyr Arg Lys Val Leu Gly Gln
 1 5 10 15

Leu Ser Ala Arg Lys Leu Leu Gln Asp Ile Met Ser Arg Gln Gln Gly
 20 25 30

Glu Ser Asn Gln Glu Arg Gly Ala Arg Ala Arg Leu Glu Glu Glu Glu
 35 40 45

Glu Glu
 50

<210> 90

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Lys6-PTH (1-34)

<400> 90

Lys Lys Lys Lys Lys Lys Ser Val Ser Glu Ile Gln Leu Met His Asn
 1 5 10 15

Leu Gly Lys His Leu Asn Ser Met Glu Arg Val Glu Trp Leu Arg Lys
 20 25 30

Lys Leu Gln Asp Val His Asn Phe
 35 40

<210> 91

<211> 40

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: PTH (1-34)-Lys6

<400> 91

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Lys Lys Lys Lys Lys Lys
 35 40

<210> 92

<211> 36

<212> PRT

<213> Artificial Sequence

<220>

00441590.07399

<223> Description of Artificial Sequence: GLP-1 (7-36)-Lys6

<400> 92

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
 1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg Lys Lys
 20 25 30

Lys Lys Lys Lys
 35

<210> 93

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: EMP-1-Lys6

<220>

<221> MOD_RES

<222> (6)

<223> Cys (Acm)

<220>

<221> MOD_RES

<222> (15)

<223> Cys (Acm)

<400> 93

Gly Gly Thr Tyr Ser Xaa His Phe Gly Pro Leu Thr Trp Val Xaa Lys
 1 5 10 15

Pro Gln Gly Gly Lys Lys Lys Lys Lys Lys
 20 25

<210> 94

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Lys6-EMP-1

<220>

<221> MOD_RES

<222> (12)

<223> Cys (Acm)

<220>

<221> MOD_RES

<222> (21)

<223> Cys (Acm)

<400> 94

00450 0554E60

Lys Lys Lys Lys Lys Lys Gly Gly Thr Tyr Ser Xaa His Phe Gly Pro
 1 5 10 15

Leu Thr Trp Val Xaa Lys Pro Gln Gly Gly
 20 25

<210> 95
 <211> 32
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Lys6-EMP-1-Lys6

<220>
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<220>
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<400> 95
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 1 5 10 15

Leu Thr Trp Val Xaa Lys Pro Gln Gly Gly Lys Lys Lys Lys Lys Lys
 20 25 30

<210> 96
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: GHRP-(Lys)6

<220>
 <221> MOD_RES
 <222> (1)
 <223> Aib

<220>
 <221> MOD_RES
 <222> (3)
 <223> 2-D-Nal

<220>
 <221> MOD_RES
 <222> (4)
 <223> D-Phe

055720 0654460

<400> 100
 Tyr Gly Gly Phe Leu Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

<210> 101
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Lys6-Leu-enkephalin

<400> 101
 Lys Lys Lys Lys Lys Tyr Gly Gly Phe Leu
 1 5 10

<210> 102
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:
 Lys6-Leu-enkephalin-Lys6

<400> 102
 Lys Lys Lys Lys Lys Lys Tyr Gly Gly Phe Leu Lys Lys Lys Lys Lys
 1 5 10 15

Lys

<210> 103
 <211> 16
 <212> PRT
 <213> Homo sapiens

<220>
 <223> GnRH-Lys6

<400> 103
 Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Lys Lys Lys Lys Lys Lys
 1 5 10 15

<210> 104
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: GnRH-(Lys-Glu)3

<400> 104

66E120"055TH60

Glu His Trp Ser Tyr Gly Leu Arg Pro Gly Lys Glu Lys Glu Lys Glu
 1 5 10 15

<210> 105
 <211> 40
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: PTH 1-34 (Lys-Glu)3

<400> 105
 Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe Lys Glu Lys Glu Lys Glu
 35 40

<210> 106
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Leu-enkephalin-(Orn)6

<220>
 <221> MOD_RES
 <222> (6)..(11)
 <223> Orn

<400> 106
 Tyr Gly Gly Phe Leu Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

<210> 107
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Leu-enkephalin-(Dbu)6

<220>
 <221> MOD_RES
 <222> (6)..(11)
 <223> Dbu

<400> 107
 Tyr Gly Gly Phe Leu Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

004537-065TH260

<210> 108
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Leu-enkephalin-(Dpr)6

<220>
 <221> MOD_RES
 <222> (6)..(11)
 <223> Dpr

<400> 108
 Tyr Gly Gly Phe Leu Xaa Xaa Xaa Xaa Xaa Xaa
 1 5 10

<210> 109
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Leu-enkephalin-Lys10

<400> 109
 Tyr Gly Gly Phe Leu Lys Lys Lys Lys Lys Lys Lys Lys Lys
 1 5 10 15

<210> 110
 <211> 9
 <212> PRT
 <213> Homo sapiens

<220>
 <223> DSIP

<400> 110
 Trp Ala Gly Gly Asp Ala Ser Gly Glu
 1 5

<210> 111
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Substance P-Lys6

<400> 111
 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met Lys Lys Lys Lys Lys
 1 5 10 15

Lys

652720 06574660

<210> 112
 <211> 11
 <212> PRT
 <213> Homo sapiens

<220>
 <223> Substance P

<400> 112
 Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu Met
 1 5 10

<210> 113
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Lys6-Substance P

<400> 113
 Lys Lys Lys Lys Lys Lys Arg Pro Lys Pro Gln Gln Phe Phe Gly Leu
 1 5 10 15

Met

<210> 114
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Lys6-GHRP

<220>
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 <222> (7)
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<220>
 <221> MOD_RES
 <222> (9)
 <223> 2-D-Nal

<220>
 <221> MOD_RES
 <222> (10)
 <223> D-Phe

<400> 114
 Lys Lys Lys Lys Lys Lys Xaa His Xaa Xaa Lys
 1 5 10

09341590"06914E60

<210> 115
 <211> 10
 <212> PRT
 <213> Homo sapiens

<220>
 <223> GnRH

<220>
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 <222> (1)
 <223> pGlu

<400> 115
 Xaa His Trp Ser Tyr Gly Leu Arg Pro Gly
 1 5 10

<210> 116
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Lys6-GnRH

<400> 116
 Lys Lys Lys Lys Lys Lys Gln His Trp Ser Tyr Gly Leu Arg Pro Gly
 1 5 10 15

<210> 117
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: EMP-1

<400> 117
 Gly Gly Thr Tyr Ser Cys His Phe Gly Pro Leu Thr Trp Val Cys Lys
 1 5 10 15

Pro Gln Gly Gly
 20

<210> 118
 <211> 30
 <212> PRT
 <213> Homo sapiens

<220>
 <223> GLP-1-(7-36)

094534E60

<400> 118

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr Leu Glu Gly
 1 5 10 15

Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly Arg
 20 25 30

<210> 119

<211> 34

<212> PRT

<213> Homo sapiens

<220>

<223> PTH (1-34)

<400> 119

Ser Val Ser Glu Ile Gln Leu Met His Asn Leu Gly Lys His Leu Asn
 1 5 10 15

Ser Met Glu Arg Val Glu Trp Leu Arg Lys Lys Leu Gln Asp Val His
 20 25 30

Asn Phe

<210> 120

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:
 Leu-enkephalin-Lys-(Glu)3-(Lys)2

<400> 120

Tyr Gly Gly Phe Leu Lys Glu Glu Glu Lys Lys
 1 5 10

<210> 121.

<211> 11

<212> PRT

<213> Homo sapiens

<220>

<223> Leu-enkephalin-(Glu2-Lys-Glu3)

<400> 121

Tyr Gly Gly Phe Leu Glu Glu Lys Glu Glu Glu
 1 5 10

556112000634430